



## Aquatic Ecology

The team of ecologists and water quality scientists at Tonkin & Taylor offer a wide range of skills and experience in relation to water quality and ecology issues such as:

- Environmental assessments
- Environmental monitoring.

### Environmental Assessments

Ecological, sediment and water quality assessments can be required for resource consent applications. T&T undertakes technical investigations from the initial monitoring design phase through to the presentation of results and recommendations as follows:

- Design of monitoring programmes
- Literature review
- Water quality sampling of discharges, and fresh and marine waters
- Freshwater, marine and terrestrial ecological field investigations
- Laboratory analysis of freshwater macroinvertebrate samples
- Statistical analysis (including habitat and community indices) and interpretation of results
- Assessment of effects
- Interpretation of planning and resource.

### Management Act requirements

- Application of water quality and sediment quality guidelines to results
- Reporting and presentation of results
- Recommendations (including possible mitigation).

### Expertise

The water quality/ecology team has specialist expertise in the following areas:

- Freshwater and marine ecosystems
- Terrestrial ecosystems
- Water quality (marine, freshwater)
- Sediment quality (marine, freshwater).

### Environmental Monitoring

Environmental monitoring can be required for resource consent applications, to monitor compliance with resource consent conditions. The water quality/ecology team will undertake water quality, sediment quality and ecological monitoring, and present results as required under conditions of consent.

